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SALES hereby certify that annexed is a true copy of the Provisional specification  
in connection with Application No. 2002950308 for a patent by PHOENIX  
EAGLE COMPANY PTY LTD as filed on 23 July 2002.



WITNESS my hand this  
Thirtieth day of July 2003

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APPLICANT: PHOENIX EAGLE COMPANY PTY LTD

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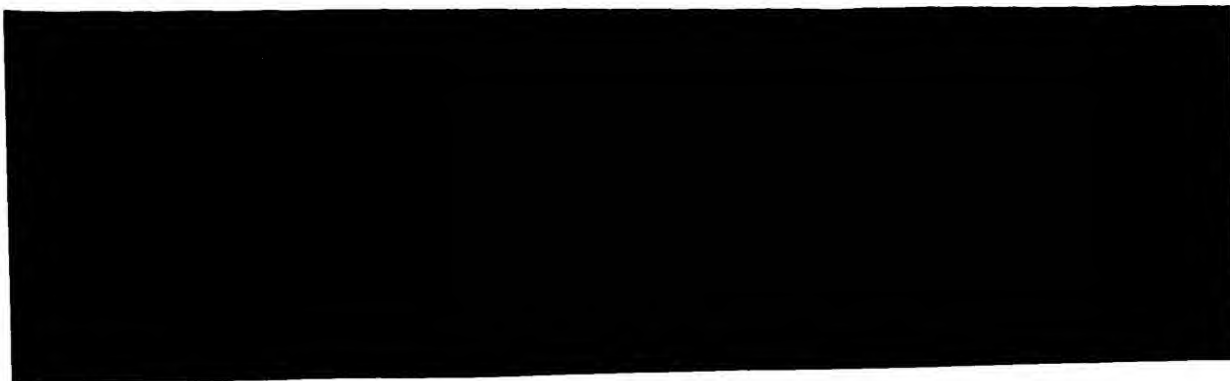
THE PATENTS ACT 1990

PROVISIONAL SPECIFICATION FOR THE INVENTION ENTITLED

*"COMPOSITION FOR TOPICAL APPLICATION"*

The present invention will be described in the following statement:

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## TITLE

### COMPOSITION FOR TOPICAL APPLICATION

#### FIELD OF THE INVENTION

5 The present invention relates to a composition for topical application, in particular to a composition for topical application to the skin to treat dermatological disorders.

#### BACKGROUND OF THE INVENTION

Generally, only the symptoms of severe skin disorders such as eczema and psoriasis can be relieved by treatment with various creams, lotions and ointments. There are a multitude of products to treat less severe skin conditions, such as wrinkles, acne and dry skin, however, total remission of all of the above mentioned skin disorders is rare. 10 The present invention attempts to overcome at least in part some of the aforementioned disadvantages.

#### SUMMARY OF THE INVENTION

In accordance with a first aspect of the present invention there is provided a composition for topical application comprising at least one fruit-derived extract and a weak base. 15

In accordance with a second aspect of the present invention there is provided a process for making a composition for topical application comprising the steps of:

- a) heating at least one fruit pulp to up to 70°C;
- 20 b) mixing between 1 and 40 % w/w of a weak base with the or each heated fruit pulp; and
- c) filtering the mixture to obtain a filtrate containing the composition.

In accordance with a third aspect of the present invention there is provided a method of treating dermatological disorders comprising topical application of an efficacious

amount of a mixture of at least one fruit-derived extract and a weak base to an area of skin in need of treatment.

In accordance with a fourth aspect of the present invention there is provided a process for making a composition for topical application comprising the steps of:

- a) heating at least one fruit pulp to up to 70°C; and
- b) mixing between 1 and 40 % w/w of a weak base with the or each heated fruit pulp.

#### DETAILED DESCRIPTION OF THE INVENTION

Dermatological disorders such as psoriasis, eczema, acne, wrinkles and dry skin can be treated by topical application of a composition including at least one fruit-derived extract and a weak base on an affected area of skin.

The extract may be derived from an inner fleshy part of the fruit, or alternatively, from a mixture of the skin and an outer fleshy part of the fruit. In some cases, and depending on the type of fruit, the whole fruit may be pulped and treated to provide an extract.

Typically, the or each fruit may be selected from a group including pawpaw, mango, lime, mandarin, grapes, tomato, and avocado.

The composition of the present invention may be prepared by first pulping the selected fruit, then heating the fruit pulp to a temperature above about 45°C, preferably to about 55°C, and up to about 70°C. To the heated fruit pulp is then added a weak base in an amount of between 1 and 40 % w/w of the total composition.

The weak base is preferably a water soluble alkali metal bicarbonate or carbonate salt, such as sodium bicarbonate, sodium carbonate, potassium bicarbonate, and potassium carbonate. The combination is thoroughly mixed, then preferably frozen.

The frozen mixture is then thawed, re-pulped, and filtered to remove any solid residues. The filtrate contains the composition of the present invention.

In the case of the composition formed from the inner flesh or the outer flesh and skin of the mango, however, there is no requirement to filter the composition before it is applied to the skin.

The composition of the present invention, in neat form, may be topically applied to an area of skin in need of treatment. Alternatively, the composition of the present invention can be formulated and topically applied as a soap, gel, cream, lotion, ointment or the like by choice of pharmaceutically acceptable carriers. Preferred carriers include deionized water, vegetable or mineral oils, white petrolatum, branched chain fats or oils, animal fats and high molecular weight alcohol. Emulsifiers, stabilizers and antioxidants may also be included as well as colouring agents and essential oils to impart fragrance.

Topical application of an efficacious amount of a mixture of at least one fruit-derived extract and weak base to an area of skin in need of treatment affords fast and effective relief from the symptoms of various dermatological disorders including psoriasis, eczema, dry skin, wrinkles, and acne. The area of treated skin takes on an improved skin tone and appears smoother and more taut. Dry and flaking skin is exfoliated from the surface of the skin, and inflamed and reddened skin is soothed.

Typically, the composition of the present invention is topically applied to the area of skin in need of treatment, allowed to penetrate the skin for a period of up to 30 minutes, and then the composition is removed from the skin by rinsing with water.

The present invention will now be further described with reference to the following example.

EXAMPLE

The firm flesh of a tomato is pulped and heated to a temperature of 55°C. To the heated pulp is added sodium bicarbonate in an amount of about 10% w/w of the total composition. The mixture is thoroughly combined, then frozen. The frozen mixture is thawed, re-pulped and filtered to afford a filtrate.

The inner flesh of a pawpaw, the outer flesh and skin of the pawpaw, and the inner flesh of a mango, are each treated as described above, except that the composition derived from the inner flesh of the mango is not filtered.

About 50g of the filtrate resulting from the pulped tomato, and about 30g each of the filtrates resulting from the inner flesh of the pawpaw, the outer flesh and skin of the pawpaw, and the inner flesh of the mango are combined and mixed thoroughly.

The combined filtrates are applied to an area of skin afflicted with psoriasis. The combined filtrates are allowed to dry on the skin for a period of about 30 minutes and then rinsed from the treated skin with water.

The treatment is repeated after 24 hours.

The symptoms of psoriasis on the treated skin are completely relieved, and there has been no reappearance of the symptoms or the disease.

Modifications and variations as would be apparent to a skilled addressee are deemed to be within the scope of the present invention.

DATED THIS 23RD DAY OF JULY 2002.

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